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Ex No. 2a:  
 Shell Script**

Aim:

To write a Shell script to display a basic calculator.

Program:

echo "Enter two numbers"

read a

read b

add=expr $a + $b

sub=expr $a - $b

mul=expr $a \\* $b

div=expr $a / $b

mod=expr $a % $b

echo "add $add"

echo "sub $sub"

echo "mul $mul"

echo "div $div"

echo "mod $mod"

Sample Input and Output:

Run the program using the below command:

[REC@localhost ~]$ sh arith.sh

Enter two numbers

5

10

add 15

sub -5

mul 50

div 0

mod 5

Result:

Thus, the shell script for performing basic calculator operations (addition, subtraction, multiplication, division, modulus) was successfully executed.  
  
**Ex No. 2b  
 Shell Script**Aim:

To write a Shell script to test whether a given year is a leap year or not using a conditional statement.

Program:

echo "Enter year"

read year

if [ expr $year % 4 -eq 0 ]

then

echo "Leap year"

else

echo "Not a leap year"

fi

Sample Input and Output:

Run the program using the below command:

[REC@localhost ~]$ sh leap.sh

Enter year

12

Leap year

Result:

Thus, the shell script to check whether a given year is a leap year or not using a conditional statement was successfully executed.